



DEPARTMENT OF THE AIR FORCE  
59TH MEDICAL WING (AETC)  
JOINT BASE SAN ANTONIO - LACKLAND TEXAS

6 FEB 2017

MEMORANDUM FOR SGVT

ATTN: LT COL NATHAN CECAVA

FROM: 59 MDW/SGVU

SUBJECT: Professional Presentation Approval

1. Your paper, entitled Hand and Wrist Mass Imaging: A Systematic Approach Will Point You in the Right Direction presented at/published to Electronic Powerpoint Poster: 2017 American Roentgen Ray Society Meeting, New Orleans, LA, 30 April – 5 May 2017 in accordance with MDWI 41-108, has been approved and assigned local file #17057.
2. Pertinent biographic information (name of author(s), title, etc.) has been entered into our computer file. Please advise us (by phone or mail) that your presentation was given. At that time, we will need the date (month, day and year) along with the location of your presentation. It is important to update this information so that we can provide quality support for you, your department, and the Medical Center commander. This information is used to document the scholarly activities of our professional staff and students, which is an essential component of Wilford Hall Ambulatory Surgical Center (WHASC) internship and residency programs.
3. Please know that if you are a Graduate Health Sciences Education student and your department has told you they cannot fund your publication, the 59th Clinical Research Division may pay for your basic journal publishing charges (to include costs for tables and black and white photos). We cannot pay for reprints. If you are 59 MDW staff member, we can forward your request for funds to the designated wing POC.
4. Congratulations, and thank you for your efforts and time. Your contributions are vital to the medical mission. We look forward to assisting you in your future publication/presentation efforts.

LINDA STEEL-GOODWIN, Col, USAF, BSC  
Director, Clinical Investigations & Research Support

## PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

### INSTRUCTIONS

#### **USE ONLY THE MOST CURRENT 59 MDW FORM 3039 LOCATED ON AF E-PUBLISHING**

1. The author must complete page two of this form:
  - a. In Section 2, add the funding source for your study [ e.g., 59 MDW CRD Graduate Health Sciences Education (GHSE) (SG5 O&M); SG5 R&D; Tri-Service Nursing Research Program (TSNRP); Defense Medical Research & Development Program (DMRDP); NIH; Congressionally Directed Medical Research Program (CDMRP) ; Grants; etc.]
  - b. In Section 2, there may be funding available for journal costs, if your department is not paying for figures, tables or photographs for your publication. Please state "YES" or "NO" in Section 2 of the form, if you need publication funding support.
2. Print your name, rank/grade, sign and date the form in the author's signature block or use an electronic signature.
3. Attach a copy of the 59 MDW IRB or IACUC approval letter for the research related study. If this is a technical publication/presentation, state the type (e.g. case report, QA/QI study, program evaluation study, informational report/briefing, etc.) in the "Protocol Title" box.
4. Attach a copy of your abstract, paper, poster and other supporting documentation.
5. Save and forward, via email, the processing form and all supporting documentation to your unit commander, program director or immediate supervisor for review/approval.
6. On page 2, have either your unit commander, program director or immediate supervisor:
  - a. Print their name, rank/grade, title; sign and date the form in the approving authority's signature block or use an electronic signature.
7. Submit your completed form and all supporting documentation to the CRD for processing (59crdpubspres@us.af.mil). **This should be accomplished no later than 30 days before final clearance is required to publish/present your materials.** If you have any questions or concerns, please contact the 59 CRD/Publications and Presentations Section at 292-7141 for assistance.
8. The 59 CRD/Publications and Presentations Section will route the request form to clinical investigations, 502 ISG/JAC (Ethics Review) and Public Affairs (59 MDW/PA) for review and then forward you a final letter of approval or disapproval.
9. Once your manuscript, poster or presentation has been approved for a one-time public release, you may proceed with your publication or presentation submission activities, as stated on this form. **Note:** For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.
10. If your manuscript is accepted for scientific publication, please contact the 59 CRD/Publications and Presentations Section at 292-7141. This information is reported to the 59 MDW/CC. All medical research or technical information publications/presentations must be reported to the Defense Technical Information Center (DTIC). See 59 MDW 41-108, *Presentation and Publication of Medical and Technical Papers*, for additional information.
11. The Joint Ethics Regulation (JER) DoD 5500.07-R, *Standards of Conduct*, provides standards of ethical conduct for all DoD personnel and their interactions with other non-DoD entities, organizations, societies, conferences, etc. Part of the Form 3039 review and approval process includes a legal ethics review to address any potential conflicts related to DoD personnel participating in non-DoD sponsored conferences, professional meetings, publication/presentation disclosures to domestic and foreign audiences, DoD personnel accepting non-DoD contributions, awards, honoraria, gifts, etc. The specific circumstances for your presentation will determine whether a legal review is necessary. **If you (as the author) or your supervisor check "NO" in block 17 of the Form 3039, your research or technical documents will not be forwarded to the 502 ISG/JAC legal office for an ethics review.** To assist you in making this decision about whether to request a legal review, the following examples are provided as a guideline:

For presentations before professional societies and like organizations, the 59 MDW Public Affairs Office (PAO) will provide the needed review to ensure proper disclaimers are included and the subject matter of the presentation does not create any cause for DoD concern.

If the sponsor of a conference or meeting is a DoD entity, an ethics review of your presentation is not required, since the DoD entity is responsible to obtain all approvals for the event.

If the sponsor of a conference or meeting is a non-DoD commercial entity or an entity seeking to do business with the government, then your presentation should have an ethics review.

If your travel is being paid for (in whole or in part) by a non-Federal entity (someone other than the government), a legal ethics review is needed. These requests for legal review should come through the 59 MDW Gifts and Grants Office to 502 ISG/JAC.

If you are receiving an honorarium or payment for speaking, a legal ethics review is required.

If you (as the author) or your supervisor check "YES" in block 17 of the Form 3039, your research or technical documents will be forwarded simultaneously to the 502 ISG/JAC legal office and PAO for review to help reduce turn-around time. If you have any questions regarding legal reviews, please contact the legal office at (210) 671-5795/3365, DSN 473.

**NOTE:** All abstracts, papers, posters, etc., should contain the following disclaimer statement:

**"The views expressed are those of the [author(s)] [presenter(s)] and do not reflect the official views or policy of the Department of Defense or its Components"**

**NOTE:** All abstracts, papers, posters, etc., should contain the following disclaimer statement for research involving humans:

**"The voluntary, fully informed consent of the subjects used in this research was obtained as required by 32 CFR 219 and DODI 3216.02\_AFI 40-402."**

**NOTE:** All abstracts, papers, posters, etc., should contain the following disclaimer statement for research involving animals, as required by AFMAN

**40-401\_IP :**

**"The experiments reported herein were conducted according to the principles set forth in the National Institute of Health Publication No. 80-23, Guide for the Care and Use of Laboratory Animals and the Animal Welfare Act of 1966, as amended."**

**PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS**

1. TO: CLINICAL RESEARCH	2. FROM: (Author's Name, Rank, Grade, Office Symbol)	3. GME/GHSE STUDENT:	4. PROTOCOL NUMBER:
NATHAN CECAVA, Lt Col, O-5, SGVT		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
5. PROTOCOL TITLE: ( <b>NOTE:</b> For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.) Hand and Wrist Mass Imaging: A systematic approach will point you in the right direction			
6. TITLE OF MATERIAL TO BE PUBLISHED OR PRESENTED: Hand and Wrist Mass Imaging: A systematic approach will point you in the right direction			
7. FUNDING RECEIVED FOR THIS STUDY? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO FUNDING SOURCE:			
8. DO YOU NEED FUNDING SUPPORT FOR PUBLICATION PURPOSES: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
9. IS THIS MATERIAL CLASSIFIED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
10. IS THIS MATERIAL SUBJECT TO ANY LEGAL RESTRICTIONS FOR PUBLICATION OR PRESENTATION THROUGH A COLLABORATIVE RESEARCH AND DEVELOPMENT AGREEMENT (CRADA), MATERIAL TRANSFER AGREEMENT (MTA), INTELLECTUAL PROPERTY RIGHTS AGREEMENT ETC.? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <b>NOTE:</b> If the answer is YES then attach a copy of the Agreement to the Publications/Presentations Request Form.			
11. MATERIAL IS FOR: <input checked="" type="checkbox"/> DOMESTIC RELEASE <input type="checkbox"/> FOREIGN RELEASE CHECK APPROPRIATE BOX OR BOXES FOR APPROVAL WITH THIS REQUEST. ATTACH COPY OF MATERIAL TO BE PUBLISHED/PRESENTED. <input type="checkbox"/> 11a. PUBLICATION/JOURNAL (List intended publication/journal.)  <input type="checkbox"/> 11b. PUBLISHED ABSTRACT (List intended journal.)  <input checked="" type="checkbox"/> 11c. POSTER (To be demonstrated at meeting: name of meeting, city, state, and date of meeting.) Electronic Powerpoint Poster: 2017 American Roentgen Ray Society Meeting, New Orleans, LA; 30 Apr-5 May 2017 <input type="checkbox"/> 11d. PLATFORM PRESENTATION (At civilian institutions: name of meeting, state, and date of meting.)  <input type="checkbox"/> 11e. OTHER (Describe: name of meeting, city, state, and date of meeting.)			
12. HAVE YOUR ATTACHED RESEARCH/TECHNICAL MATERIALS BEEN PREVIOUSLY APPROVED TO BE PUBLISHED/PRESENTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO ASSIGNED FILE # _____ DATE _____			
13. EXPECTED DATE WHEN YOU WILL NEED THE CRD TO SUBMIT YOUR CLEARED PRESENTATION/PUBLICATION TO DTIC <b>NOTE:</b> All publications/presentations are required to be placed in the Defense Technical Information Center (DTIC).			
DATE 20 Jan 2016			
14. 59 MDW PRIMARY POINT OF CONTACT (Last Name, First Name, M.I., email) Cecava, Nathan D. nathan.d.cecava.mil@mail.mil		15. DUTY PHONE/PAGER NUMBER 210-220-8071	
16. AUTHORSHIP AND CO-AUTHOR(S) List in the order they will appear in the manuscript.			
LAST NAME, FIRST NAME AND M.I.	GRADE/RANK	SQUADRON/GROUP/OFFICE SYMBOL	INSTITUTION (If not 59 MDW)
a. Primary/Corresponding Author Mansfield, Liem T.	Civilian	Dept. Radiology, Brooke Army MC	BAMC
b. Cecava, Nathan D.	Lt Col	959CSPS/959MDG/SGVT	59 MDW
c.			
d.			
e.			
17. IS A 502 ISG/JAC ETHICS REVIEW REQUIRED (JER DOD 5500.07-R)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
I CERTIFY ANY HUMAN OR ANIMAL RESEARCH RELATED STUDIES WERE APPROVED AND PERFORMED IN STRICT ACCORDANCE WITH 32 CFR 219, AFMAN 40-401_IP, AND 59 MDWI 41-108. I HAVE READ THE FINAL VERSION OF THE ATTACHED MATERIAL AND CERTIFY THAT IT IS AN ACCURATE MANUSCRIPT FOR PUBLICATION AND/OR PRESENTATION.			
18. AUTHOR'S PRINTED NAME, RANK, GRADE NATHAN CECAVA, Lt Col, O-5		19. AUTHOR'S SIGNATURE CECAVA NATHAN D 1183976822	
20. DATE December 16, 2016			
21. APPROVING AUTHORITY'S PRINTED NAME, RANK, TITLE MICHAEL TALL, Col, Program Director		22. APPROVING AUTHORITY'S SIGNATURE TALL MICHAEL A 1035929360	
23. DATE January 10, 2017			

**PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS**
**1st ENDORSEMENT (59 MDW/SGVU Use Only)**

TO: Clinical Research Division 59 MDW/CRD Contact 292-7141 for email instructions.	24. DATE RECEIVED <b>JAN 18, 2017</b>	25. ASSIGNED PROCESSING REQUEST FILE NUMBER <b>17057</b>
26. DATE REVIEWED <b>February 02, 2017</b>		27. DATE FORWARDED TO 502 ISG/JAC
28. AUTHOR CONTACTED FOR RECOMMENDED OR NECESSARY CHANGES: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If yes, give date. _____ <input type="checkbox"/> N/A		
29. COMMENTS <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED Academic presentation without research component. Appropriate disclaimers included		

30. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER <b>Kevin Kupferer/GS13/Human Research Subject Protection Expert</b>	31. REVIEWER SIGNATURE <b>KUPFERER KEVIN.R.1086667270</b> <small>Digital signed by KUPFERER KEVIN.R.1086667270 On 2017-02-02 12:24:47 +0000 (UTC) Using OpenPGP v2.6.10-1 Email: KUPFERER KEVIN.R.1086667270 Date: 2017-02-02 12:24:47 +0000</small>	32. DATE <b>February 02, 2017</b>
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**2nd ENDORSEMENT (502 ISG/JAC Use Only)**

33. DATE RECEIVED	34. DATE FORWARDED TO 59 MDW/PA	
35. COMMENTS <input type="checkbox"/> APPROVED (In compliance with security and policy review directives.) <input type="checkbox"/> DISAPPROVED		

36. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER	37. REVIEWER SIGNATURE	38. DATE
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39. DATE RECEIVED <b>February 02, 2017</b>	40. DATE FORWARDED TO 59 MDW/SGVU <b>February 03, 2017</b>	
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41. COMMENTS <input checked="" type="checkbox"/> APPROVED (In compliance with security and policy review directives.) <input type="checkbox"/> DISAPPROVED	
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42. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER <b>Kevin Iinuma, SSgt/E-5, 59 MDW Public Affairs</b>	43. REVIEWER SIGNATURE <b>IINUMA.KEVIN.MITSUGU.1296227</b> <small>Digital signed by IINUMA.KEVIN.MITSUGU.1296227 On 2017-02-02 12:24:47 +0000 (UTC) Using OpenPGP v2.6.10-1 Email: IINUMA.KEVIN.MITSUGU.1296227 Date: 2017-02-02 12:24:47 +0000</small>	44. DATE <b>February 03, 2017</b>
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45. DATE RECEIVED	46. SENIOR AUTHOR NOTIFIED BY PHONE OF APPROVAL OR DISAPPROVAL <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> COULD NOT BE REACHED <input type="checkbox"/> LEFT MESSAGE	
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47. COMMENTS <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		
48. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER	49. REVIEWER SIGNATURE	50. DATE

**Hand and Wrist Mass Imaging: A systematic approach will point you in the right direction**  
[2997 characters with space. Maximum = 3100 characters]  
Cecava ND, Bui-Mansfield LT

**Background Information/Purpose** [170 characters with space]

The purpose of this education exhibit is to review proper radiologic evaluation of hand and wrist masses and depict both common and rare masses seen in clinical practice.

**Educational Goals/Teaching Points** [408 characters with space]

1. Understand imaging techniques to optimally evaluate hand and wrist masses including radiography, sonography, computed tomography (CT) and magnetic resonance imaging (MRI).
2. Understand which masses are common and which are rare.
3. Recognize typical imaging appearances of hand and wrist tumors.
4. Develop an accurate differential diagnosis for hand and wrist masses based on clinical and imaging findings.

**Key anatomic or pathophysiologic issues, imaging findings or imaging technique** [2018 characters with space]

Radiography is the initial imaging examination for suspected hand or wrist mass.

Sonography can be used to determine whether a mass is solid or cystic. CT is used for problem solving, especially for calcified soft tissue mass. Dual energy CT is useful in crystal deposition disease, which can mimic neoplasm on imaging. MR imaging is the examination of choice for definitive evaluation of a mass in the hand or wrist as it has excellent tissue characterization.

Clinical history can aid in accurate mass assessment. Many masses will have typical presenting symptoms or associated systemic syndromes. Understanding location and typical imaging characteristics of hand and wrist masses will contribute greatly to an accurate differential diagnosis.

Benign soft tissue masses include pseudotumors (non-neoplastic tendon disorders, articular diseases, myositis ossificans, ganglionic cyst, crystal deposition disease, accessory muscle, and aneurysm), synovial osteochondromatosis, giant cell tumor of the tendon sheath, lipoma, vascular lesions, superficial palmar fibromatosis, epidermal inclusion cyst, benign peripheral nerve sheath tumor, pigmented villonodular synovitis, glomus tumor, fibrolipomatous hamartoma, and extraosseous chondroma. Malignant soft tissue masses include skin cancers, synovial sarcoma, epithelioid sarcoma, rhabomyosarcoma, leiomyosarcoma, fibrosarcoma, and malignant peripheral nerve sheath tumors. Benign osseous lesions include intraosseous ganglion, bizarre parosteal osteochondromatosis proliferation, enchondroma, osteochondroma, aneurysmal bone cyst, osteoid osteoma, giant cell reparative granuloma , and Brown tumor. Malignant osseous lesions include chondrosarcoma, parosteal osteosarcoma, and Ewing sarcoma.

Knowing the frequency of the various hand and wrist masses aids in developing an accurate differential diagnosis. Soft tissue lesions are much more common than osseous lesions. Pseudotumors are more common than true neoplasms, and benign tumors are much more common than malignant tumors.

## **Conclusion [401 characters with space]**

Masses in the hand and wrist are common. Radiologists should understand how various imaging modalities are used to evaluate these masses. Having an accurate differential diagnosis for hand and wrist masses can be challenging. Mass location, imaging characteristics, clinical information, and knowledge of the relative rarity of each mass can assist in organizing an accurate differential diagnosis.

Maximum number of slides: 5

Include no more than 2 images

Abstract title is at the top of the first slide

Animation and/or video is not allowed

Disclaimer: The views expressed are those of the author(s)/presenter(s) and do not reflect the official view or policy of the Department of Defense or its Components.